HAROLD T. EPPARD GRHTE 1-2 GREENE COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

PART D-VI. LAND AFF	LICATION AGNEE	WENT - DIOSOL	סטווו עווא טעו.	STRIAL RESIDUALS	
here as "Landowner", and remains in effect until it is t	Recyc Systems, Inc erminated in writing by t of a sale of one or mo I in this agreement cha	; referred to he either party or, wo bre parcels, until o inges, those parce	iere as the "Perm th respect to thos wnership of all pa ils for which owne	se parcels that are retained by arcels changes. If ownership of ership has changed will no	f
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.				Virginia, which includes ified on the tax map(s)	7
Table 1.: Parcels aut	thorized to receive bios	solids, water treatr	nent residuals or	other industrial sludges	
<u>Tax Parcel ID</u>	Tax Parcel ID	<u>Ta</u>	x Parcel ID	<u>Tax Parcel ID</u>	<u>]</u>
36-6-1A					4
					-
]
					j
Additional parcels containing Lan				h anata	
	e Landowner is the so e Landowner is one of				
within 38 months of the late 1. Notify the purchase later than the date	est date of biosolids ap	plication, the Land applicable public a r; and	lowner shall: ccess and crop m	piosotids have been applied nanagement restrictions no	
The Landowner has no othe notify the Permittee immedi for application or any part o incorrect.	iately if conditions chai	nge such that the t	ields are no longe	er available to the Permittee	
The Landowner hereby gra agricultural sites identified a inspections on the land ider purpose of determining com	above and in Exhibit A atified above, before, d	The Landowner luring or after land	also grants permi application of pe	ssion for DEQ staff to conduct mitted residuals for the	
	er treatment residuals	Food process		her industrial sludges	
☑ Yes ☐ No ☑ Ye	es 🗆 No	✓ Yes □	l No ⊠	Yes ONO 1066 Parker	Mtn. R
L Harold T Eppa	attaral	17 E	marker)	Stanardsville, VA	22973
Landowner - Printed Name, Title	Signature	12	Maili	ing Address & Phone Number 434-985 Z365	
Permittee:				751-105 2503	
				n the Landowner's land in the tified in the nutrient management	
plan prepared for each land ap					
				chedule for land application and source of residuals to be applied.	
☐ I reviewed the document(s) document(s) available to DEQ	assigning signatory auth for review upon request.	ority to the person si (Do not check this bo	gning for landowne if the landowner sigr	r above. I will make a copy of this as this agreement)	
Oderotto Oderotto	Sharp Sharp	(le) P		nington, Virginia 22734	
Permittee – Authorized Represer Printed Name			Maili	ng Address	

Printed Name Rev 9/14/2012

Page 1 of 2

Permittee: <u></u>	Recyc Systems	s, Inc	_—County or City;	<u>- Greene</u>	
Landowner: _	Haroid	Eppard	_		

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

Public Access

- a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols:
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

Crop Restrictions:

- Food crops with harvested parts that touch the biosolids/soll mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- Meat producing livestock shall not be grazed for 30 days,
- Lactating dairy animals shall not be grazed for a minimum of 60 days.
- Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;

Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

1066 Parker Mtn Road

Stanardsville, VA 22973

434-985-2365

Mailing Address & Phone Number

Farm Operator Signature

Perr	nittee:	Recyc Syste	ms. Inc	County or City: <u>@</u>	ireene.	
		Harold		, , , , , , <u>, , , , , , , , , , , , , </u>		
Lan	d <u>owner s</u>	Site Manager	nent Requirements:	and the second s	in the second se	
			d a DEQ Biosolids Fact Shoonents of biosolids and pr		flon regarding regulations governoplication of biosolids.	sing the land
ident	ified below i	must be complie	ed by the Permittee that the d with after biosolids have ementation of these practi	been applied on my prop	irements and site access restrict perty in order to protect public he	ions aith, and
	ee to implen		g site management practic	es at each site under mý	ownership following the land ap	plication of
1.	Notificatio biosolids l completed	land application a	ot remove any signs poste site, unless requested by t	d by the Permittee for the he Permittee, until at leas	purpose of identifying my field a st 30 days after land application a	is a at that site is
2	b. f b. f s c. T	Public access to I any application of Public access to I application of bio- ame period of tir art grown on lan	f biosolids. land with a low potential fo solids. No biosolids amen ne unless adequate provis id where biosolids are app ed turf is placed on either l	r public exposure shall be ded soil shall be excavate tions are made to preven lied shall not be harveste	pe restricted for at least one year e restricted for at least 30 days for ed or removed from the site during t public exposure to soil, dusts of d for one year after application of for public exposure or a lawn, ur	ollowing any ng this r aerosols; f blosolids
3.	b F a c. F d C e. F	ood crops with he to be harvested ood crops with he polication of biosonths prior to incode crops with his solids remain of the food crops	for 14 months after the apparvested parts below the solids when the biosolids no corporation into the soil, harvested parts below the son the land surface for a timend fiber crops shall not be	plication of biosolids, surface of the land shall r emain on the land surface surface of the land shall r ne period of less than for e harvested for 30 days a	and are totally above the land sunot be harvested for 20 months are for a time period of four (4) or mot be harvested for 38 months wir (4) months prior to incorporation of biosolids; biosolids (60 days if fed to lactar	fter the nore then the
4	Follow a M b. L	leat producing live actating dairy an	ons: plication to pasture or hay vestock shall not be grazed ilmals shall not be grazed all be restricted from grazin	d for 30 days, for a minimum of 60 days	5.	
5,	application	is such that the t	fertilizer or manure applica otal crop needs for nutrier tified in accordance with §	its are not exceeded as ig	with the biosotids and industrial i dentified in the nutrient managem f Virginia;	residuais ient plan
6.	Tobacco, I	pecause it has be	een shown to accumulate tion of biosolids or industri	cadmium, should not be g	grown on the Landowner's land fo admium equal to or exceeding 0.	or three 45
	Landowne	r's Signature			Date	
	<i>;</i>)			10. Sta	fi Parker Mth. R nadsville. v.A. 2:	2006 2973

Rav 9/14/2012 Page 2 of 2

434 - 996 - 5972 Mailing Address & Phone Number

Farm Operator Signature

Richard Eppard

FARM DATA SHEET

			
SITE NAME:	Harold T. Eppard	COUNTY:	Greene
OWNER:	Harold T. Eppard	OPERATOR:	Richard Eppard
OWNER'S	1066 Parker Mtn. Road	OPERATOR'S	1041 Parker Mtn. Road
ADDRESS:	Stanardsville, VA 22973	ADDRESS:	Stanardsville, VA 22973
OWNER'S TELEPHONE:	434-985-2365	OPERATOR'S TELEPHONE:	434-990-0299
GENERAL FARM TYPE:	Hay/ Pasture	CELL PHONE:	434-996-5972
# CATTLE:	20	EMAIL:	
LAGOON or SLURRY:	None	LATITUDE:	38.281
TOPO QUAD:	Stanardsville	LONGITUDE:	78.478
COMMENTS:		METHOD OF DETERMINATION:	Online Maps
			8B 🕙

RECYC SYSTEMS, INC FIELD DATA SHEET

Field	DEQ	Gross	Env	ronmentally	Sensiti	ve Soils		Tax	FSA
Identification	Control ID	Acres	Water Table	Bed Rock/Shallow	Surf/ Leach	Freq Flood	Hydro Map	Map#	Tract #
GRHTE 1	51079-00078-0000	15.0	-	-	-		JR 10	36-6-1A	T 3117 F 0, 3
GRHTE 2	51079-00079-0000	8.7			7	Cs FebMay Cv NovMay	JR 10	36-6-1A	T 3117 F 0, 1
								_	
TOTAL ACRES IN SITE		23.7						`	

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee:	Recyc Systems, Inc	Site Name:	Harold T.	. Eppard

County or City: Greene Co.

Please Print

Signature not required on this page

Tax Parcel ID(s) 36-6-1A Harold T. Eppard Landowners (s) Harold T. Eppard		
36-6-1A Harold T. Eppard	Tax Parcel ID(s)	<u>Landowners</u> (s)
	36-6-1A	Harold T. Eppard
	-	

Page 1 of 2

Report Number: 17-254-0553 Account Number: 70594



7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

Send To: Recyc Systems Inc

Susan Trumbo 8455 Whiteshop Road Culpepper VA 22701

"Every acre... Every year "na

Grower: Harold Eppard Greene Co

SOIL ANALYSIS REPORT

Analytical Method(s):

SMP Buffer pH

Mehlich 3 Loss On Ignition Water pH

Date Received: 09/11/2017

Date Of Analysis: 09/12/2017

Date Of Report: 09/12/2017

- ID		ОМ	W/V	ENR		Phosphorus			Magnesium	Calcium	Sodium	Hq		Acidity	C.E.C
Sample ID Field ID	Lab Number	% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
1	23698	6.3		150	69 H			79 L	141 M	1431 H		6 1	6.79	1.4	99
		н										_			
2	23699	6.7		150	11 VL			200 VH	185 H	740 L		5.6	6.76	17	7.5
		Н				1)(1									

		Percent Base Saturation				Nitrate	Sulfur	Zin	C	Manga	nese	iron		Copper	Boron	Soluble Salts	1
Sample ID Field ID	κ	Mg	Ca	Na	н	NO ₃ N	s	Zn)	Mi	1	Fe		Cu	8	SS	
	%	%	<u> %</u>	%	%	ppm Rate	ppm Rate	ppm	Rate	ppm	Rate	ppm Ra	ate	ppm Rate	ppm Rate	ms/cm Rate	
1	20	11 9	72 3		141			6 2	Η	23	I						
2	6 8	20 6	49 3		22 7			28	М	27	Н						

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meg/100g (milli-equivalent per 100 grams) Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm

This report applies to sample(s) tested, Samples are retained a maximum of thirty days after testing.

Analysis prepared by Waypoint Analytical Virginia, Inc.

by. Pouric Mc George

Pauric McGroary

Page 2 of 2

Report Number: 17-254-0553 Account Number: 70594 Waypoint ANALYTICAL

7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

Send To: Recyc Systems Inc

Susan Trumbo

8455 Whiteshop Road Culpepper VA 22701 "Every acre_ Every year "™

Grower: Harold Eppard Greene Co

Date Received: 09/11/2017

Date Of Report: 09/12/2017

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P ₂ O ₅ Ib/A	Potash K₂O Ib/A	Magnesium Mg Ib/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
1	Adjust pH to 6 8	0	15				0			0			
2	Adjust pH to 6.8	0	2.0				0		· · · · ·	0			

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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uria MaCasani

Pauric McGroary

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet (Fall, 2017-Winter, 2019) Harold T. Eppard Planner: John Doe

Tract: 3117 Location: Greene

N = N based, 1P = P based 1.5P = P based at 1.5 removal, 0P = No P allowed)

N - N Daseu, IF - F	Daseu	1.35 - 1	pased at 1 3 lettica	al, OF - NO F al	ioweuj_								
Field	Size	Yr.	Crop	Needs	Leg	Manure/Biosld	ΙT	Man/Bios	Net = Needs -	Sum	Commercial	Notes	
CFSA No	(ac)			N-P-K	/Man	Rate & Type	(d)	N-P-K	appld N-P-K	Р	N-P-K		
/Name	Total/			(lbs/ac)	Resid	(season)	' '	(lbs/ac)	(lbs/ac)	rem	(lbs/ac)		
	Used				,			,	ľ,	cred	' ' '		
0, 3/GRHTE 1(N)	15/15	2017	Hay/Pasture	120-50-170	0/0			, , , , , , , , , , , , , , , , , , , ,	120-50-170	N/A			
0, 1/GRHTE 2(N)	9/9	2017	Grass Pasture	50-120-0	0/0				50-120-0	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
3117	GRHTE 1	15	2017-Fa	H (69 P ppm)	M (79 K ppm)	A&L MIII	6.1		
3117	GRHTE 2	9	2017-Fa	L- (11 P ppm)	H+ (200 K ppm)	A&L MIII	5.6		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
3117	3117/0, 3	GRHTE 1	15	Braddock	Illa	1	11	H	
	3117/0, 1	GRHTE 2*	9	Braddock	Illa	ll .	11	III	High Leaching, High Slope

^{*} Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applications.

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
	>170	>80	>64	>6	>4.0
11	150-170	70-80	56-64	4-6	3.5-4.0
111	130-150	60-70	48-56	<4	3.0-3.5
1V	100-130	50-60	40-48	NA	<3.0
٧	<100	<50	<40	NA	NA

Farm Summary Report

Plan: New Plan Fall, 2017 - Winter, 2019

Farm Name: Harold T. Eppard

Location: Greene Specialist: John Doe N-based Acres: 23.7 P-based Acres: 0.0

Tract Name: 3117 FSA Number: 3117

Location Greene

Field Name: GRHTE 1

Total Acres: 15.00 Usable Acres 15.00

FSA Number. 0, 3 Tract: 3117

Location Greene

Slope Class. C Hydrologic Group C

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

Fa-2017 6.1 H(69 P ppm) M(79 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

55	BcC	Braddock
2	BdD3	Braddock
14	EIC	Elioak
29	M∨B	Meadowville

Field Warnings:

Field Name: GRHTE 2

Total Acres: 8.70 Usable Acres: 8.70

FSA Number: 0, 1 Tract: 3117

Location: Greene

Slope Class C Hydrologic Group D

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	Р	K		Lab
Fa-2017	5.6	L-(11 P ppm)	H+(200 K ppm)	A&I MIII	

Soils:

PERCENT	SYMB	OL SOIL SEI	RIES
24	BcC	Braddock	
42	BdD3	Braddock	
21	Cs	Comus	
10	Cv	Craigsville	
4	M∨B	Meadowville	

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

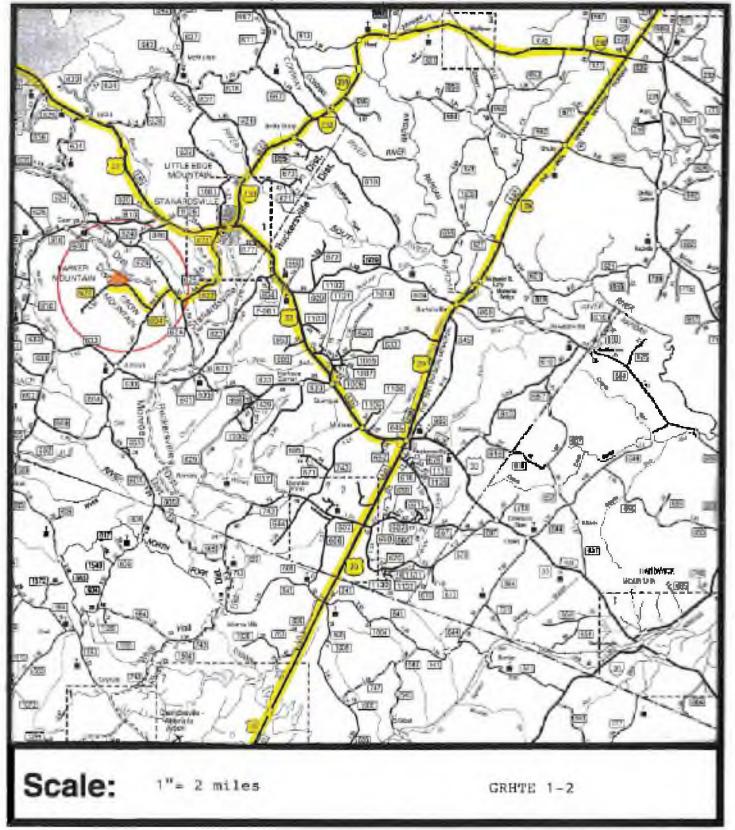
Soils with perent slope in excess of 15%

M P

Recyc Systems.

(Biesolids Land Application)

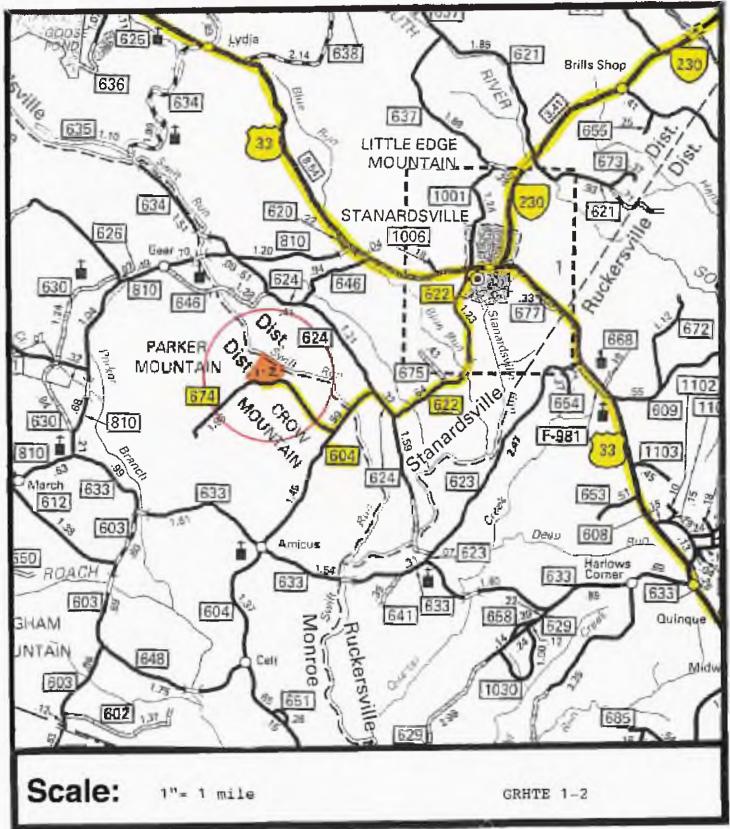




Recyc Systems

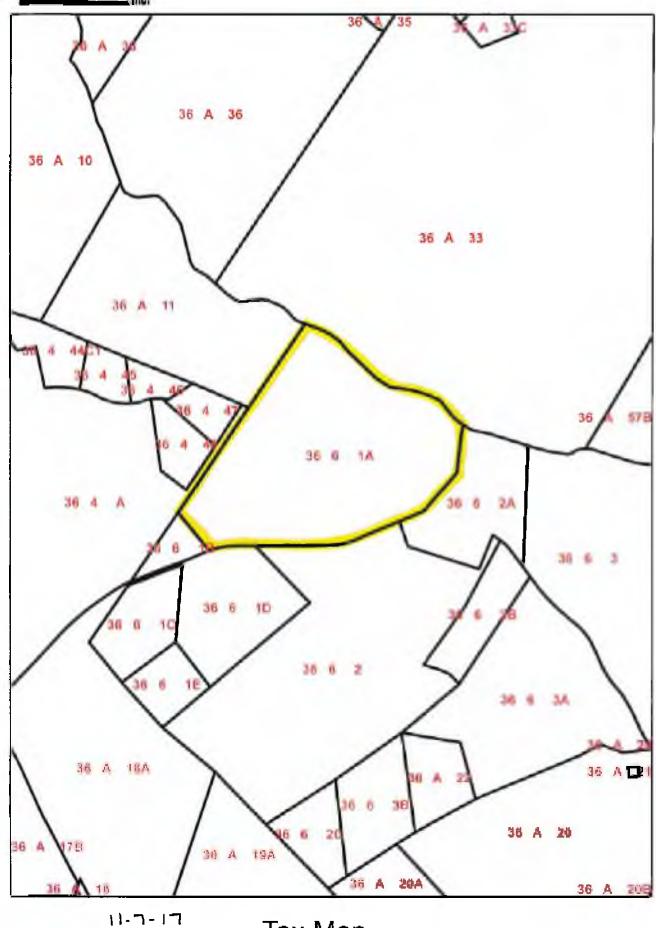
(Biosolids Land Application)





11-7-17

VICINITY MAP





ADJOINING LANDOWNERS

Harold Eppard

GREENE COUNTY

Tax Map	Parcel #	Owner Name(s)
36	4-A 4-48 6-1B 6-1D 6-2 6-2A A-11 A-33	Farmcolony Homeowners Association Inc. Raymond V. & Margaret R. Rush Thomas L. Eppard Richard and Teresa Eppard John Charles Ewing and Ruanne Alice Reimer John C. & Ruthann A. Ewning Percy Powell (Heirs) c/o Alvin Anderson Hugh B. & Willie J. Collier

Recyc Systems.

(Biosolids Land Application)





ources on Service

Web Soil Survey National Cooperative Soil Survey

Scale: 1"= 660 ft.

GRHTE 1-2

Recyc Systems.

(Biosolids Land Application)





FSN 549 Tract 3117 Harold Eppars

Scale:

1"= 660 ft.

GRHTE 1-2

Legend For Site Plan

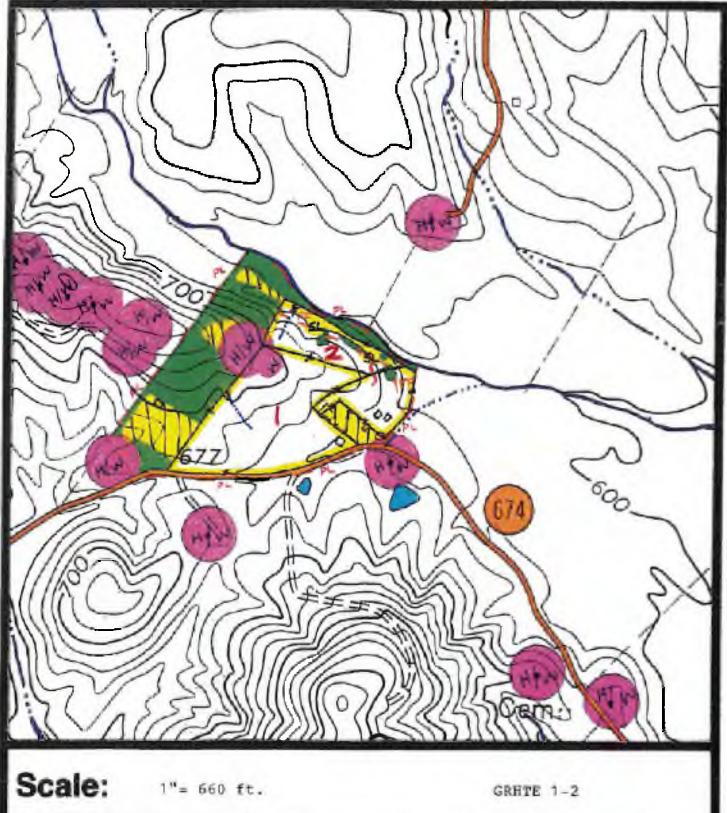
Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
	Well or Spring	100 feet from water supply wells or springs
SECOND 1 SECOND 1 SECOND	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
ш	Wet Spot	
	Trees and Woods	
	Private Drive	
	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
=	Severely Eroded Spot	18 Inch minimum depth of soil
	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
P P P	Property Line	100 feet from property line *
SL S	Slope	15% maximum
	Hashed out Area	No application

^{*}Buffer can be reduced or waived upon written consent from landowner.

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(Biosolids Land Application)





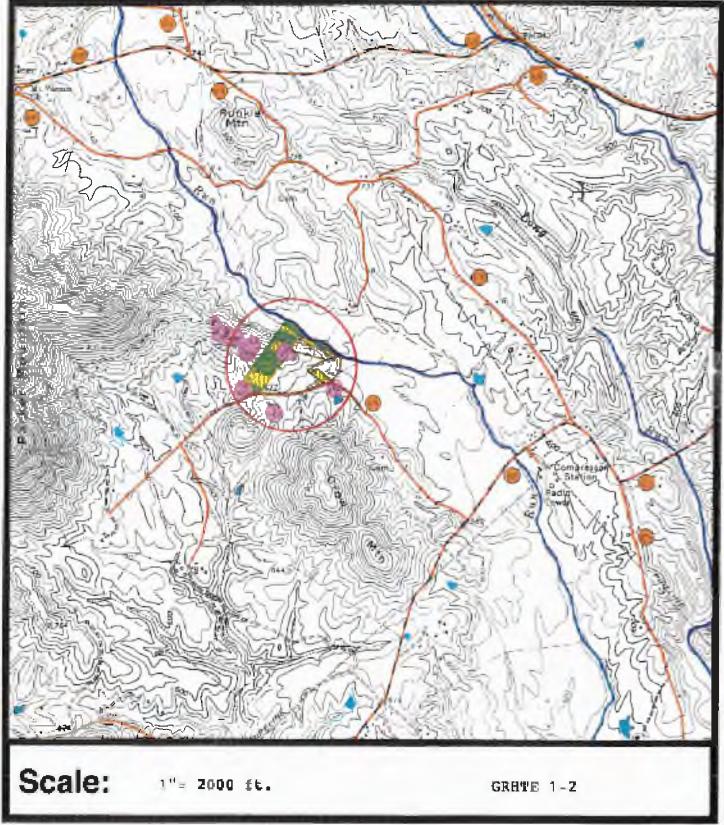
11-7-17

SITE PLAN

Recyc Systems...

(Biosolids Land Application)





11-7-17

TOPOGRAPHIC MAP